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Contributions of the Chemist to the Pulp and Paper Industry: F. L. Moore, president American Paper and Pulp Association.

The Strassfurt Potash Industry: H. A. Huston.

A complimentary luncheon was served at the Tulane refectory, the university being host. On Thursday evening a public address to the people of New Orleans by Bernhard C. Hesse, entitled "The Chemists' Contribution to the Industrial Development of the United States—A Record of Achievement," was given at the Hotel Grunewald, a large attendance being present. On Friday divisional meetings were held, before which one hundred and fifty-three papers were presented. The details of these papers and a further description of the meetings will be found in the May issue of the *Journal of Industrial and Engineering Chemistry*. Friday evening a subscription dinner was held at the Restaurant de la Louisiane, which will long be remembered by those present for the charming company and the creole cuisine. On Saturday one hundred of the members took a special train to Weeks Island and visited the famous salt-mine of the Myles Salt Co. The train went through the bayou region of Louisiana, made famous by Longfellow's poem, "Evangeline." The newly planted sugar-fields and the swamps, with their Spanish moss and the early tropical herbage, were attractive to all. The mine, which is an unusual one, was entered by a shaft six hundred feet deep, the bottom of which opened into galleries cut in solid salt many hundred feet long and eighty-five feet high by eighty-five feet wide, entirely unsupported by timbers. The salt, approximately 99.9 per cent. pure, is simply blasted out, carried to the surface, screened to various sizes, and placed on the market. The party returned to New Orleans in time to catch the evening trains. Many ladies were present at the meeting and, under the charge of the committee of which Mrs. E. J. Northrup was chairman, received many attentions from the people of New Orleans.

The ladies were present at the smoker and at the banquet and took the salt-mine excursion and were given a special trip through the Vieux Carre and to the Newcomb Pottery, and they had a dinner of their own at one of the famous local restaurants. One hundred and seventy-five members and approximately one hundred and twenty-five guests were present, so that the meeting was a very successful one from the point of numbers, considering the distance of New Orleans from the chemical center of the country. Meetings of

the following divisions were held, full programs of which will appear in the May issue of the *Journal of Industrial and Engineering Chemistry*:

*Industrial Chemists and Chemical Engineers.*—H. E. Howe, in the absence of the chairman, was in charge. The following committees were appointed: Committee on Standard Specifications and Methods of Analysis: (Chairman not appointed), A. M. Comey, J. O. Handy, Robert Job, F. G. Stantial. Committee on Non-ferrous Metals and Alloys, a subcommittee of the committee on standard specifications: Wm. Price, chairman, Allen Merrill, Geo. L. Heath, Gilbert Rigg, Bruno Woiciechewski. Committee on Soap Products: Archibald Campbell, chairman, C. P. Long, J. R. Powell, Percy H. Walker. Committee on Glycerine, a subcommittee of the Committee on Soap Products: A. C. Langmuir, chairman, W. H. Low, S. S. Emery, R. E. Devine, J. W. Loveland, A. M. Comey. Committee on Naval Stores: J. E. Teeple, chairman (other members not yet selected). Committee on Alum: W. M. Booth, chairman, Chas. P. Hoover, Wm. C. Carnell. Committee on Platinum: W. F. Hillebrand, chairman, Percy H. Walker, H. T. Allen.

*Physical and Inorganic Chemistry.*—E. P. Schoch, in the absence of the chairman, was in charge.

*Fertilizer Chemistry.*—Chairman J. E. Breckenridge was in charge.

*Agricultural and Food Chemistry.*—Chairman Floyd W. Robison was in charge.

*Organic Chemistry.*—C. G. Derick, in the absence of the chairman, was in charge.

*Pharmaceutical Chemistry.*—Chairman F. R. Eldred was in charge.

*Biological Chemistry.*—Chairman C. L. Alsberg was in charge.

*Water, Sewage and Sanitation.*—The following officers were elected: Edward Bartow, chairman; E. B. Phelps, vice-chairman; H. P. Corson, secretary; executive committee—the officers and C. P. Hoover and E. H. S. Bailey.

CHARLES L. PARSONS,  
Secretary

#### THE AMERICAN MATHEMATICAL SOCIETY

THE one hundred and seventy-seventh regular meeting of the society was held at Columbia University on Saturday, April 24, seventy-one mem-

bers being in attendance at the two sessions. President E. W. Brown occupied the chair, being relieved by ex-presidents Osgood, Moore and White and Vice-president Veblen. The following were elected to membership in the society: Professor L. S. Hill, University of Montana; Miss G. I. McCain, Indiana University; Mr. J. L. Riley, Rice Institute. Eleven applications for membership were received.

The invitation of Harvard University to hold the summer meeting and colloquium of the society at Harvard in 1916 was accepted. The annual meeting will be held in New York City in December. Committees were appointed to arrange for these meetings and to present a list of nominations for officers for 1916. Professor P. F. Smith was reelected a member of the editorial committee of the *Transactions*.

Reports of the committees were received regarding the movement against mathematics in the schools and the possible relations of the society to the field now covered by the *American Mathematical Monthly*. It was decided that in the former matter no action of the society was at present advisable. The relations of the society to the field covered by the *Monthly* were carefully considered and the sense of the Council was embodied in the following resolution: "It is deemed unwise for the American Mathematical Society to enter into the activities of the special field now covered by the *American Mathematical Monthly*; but the council desires to express its realization of the importance of the work in this field and its value to mathematical science, and to say that should an organization be formed to deal specifically with this work, the society would entertain toward such an organization only feelings of hearty goodwill and encouragement."

The following papers were read at this meeting:

C. J. de la Vallée-Poussin: "Démonstration simplifiée d'un théorème de Vitali sur le passage à la limite sous le signe d'intégration."

C. A. Fischer: "Minima of double integrals with respect to one-sided variations."

G. M. Green: "Nets of space curves."

R. L. Moore: "A set of axioms in terms of point, region and motion."

R. L. Moore: "On the categoricity of a set of postulates."

H. S. Vandiver: "A property of cyclotomic integers and its relation to Fermat's last theorem. Second paper."

J. F. Ritt: "The reduction of invariant equations."

E. B. Wilson: "Linear momentum, kinetic energy and angular momentum."

F. H. Safford: "An irrational transformation of the Weierstrass  $\wp$ -function curves."

Arnold Emch: "A certain class of functions connected with Fuchsian groups."

G. D. Birkhoff: "An elementary double inequality for the root of an algebraic equation having greatest absolute value."

H. S. White and Louise D. Cummings: "Groupless triad systems on 15 elements."

Edward Kasner: "Conformal geometry in the complex domain."

Edward Kasner: "Convergence proofs connected with equilog invariants."

E. V. Huntington: "Notes on the catenary, including the case of an extensible chain."

R. C. Strachan: "Note on the catenary."

J. E. Rowe: "A property of the osculant conic of the rational cubic."

J. E. Rowe: "The node of the rational cubic as a rational curve in lines."

Dr. F. W. Beal: "A congruence of circles."

H. F. Stecker: "Linear integral equations whose solutions have only a finite number of terms."

C. A. Epperson: "Note on Green's theorem."

L. J. Reed: "Some fundamental systems of formal modular invariants and covariants."

J. R. Kline: "Double elliptic geometry in terms of point and order."

Alexander Pell: "On the curves of constant torsion."

J. W. Young and F. M. Morgan: "The geometries associated with a certain system of Cremona groups."

T. H. Gronwall: "A functional equation in the kinetic theory of gases."

J. W. Alexander, II: "A theorem on conformal representation."

J. H. Weaver: "The Collection of Pappus."

A meeting of the society was held in Chicago on April 2-3. The summer meeting will be held at the University of California and Stanford University, August 3-5.

F. N. COLE,  
Secretary

## SOCIETIES AND ACADEMIES

### THE UTAH ACADEMY OF SCIENCES

THE eighth annual convention of the Utah Academy of Sciences was held in the chemistry lecture room of the University of Utah. Three sessions were held: one at eight P.M., Friday, April 2, one at 10 A.M., Saturday, April 3, and the closing meeting at two P.M., the same day.